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> [Luxbird 2-Pack Seedling Heat Mats with Digital Thermostat 21W User Manual](#)

Luxbird B0C5HB3HSC

Luxbird 2-Pack Seedling Heat Mats with Digital Thermostat 21W User Manual

Model: B0C5HB3HSC

1. INTRODUCTION

Thank you for choosing the Luxbird 2-Pack Seedling Heat Mats with Digital Thermostat. This system is designed to provide a warm, controlled environment essential for successful seed germination, rooting cuttings, and promoting vigorous growth of young plants. The kit includes two durable heating mats, a precise temperature probe, and a user-friendly digital thermostat for accurate temperature regulation.

This energy-efficient 21W set is ideal for various applications, including seedlings, cuttings, potted plants, and greenhouse cultivation, ensuring healthier plants throughout the year.

Full Harvest All Year Round

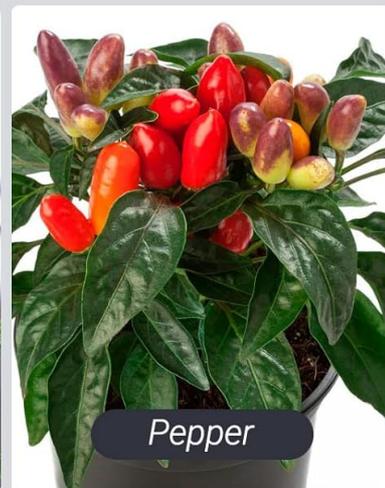


Image 1.1: Examples of plants benefiting from the Luxbird heat mats.

2. SAFETY INFORMATION

Please read all safety instructions before using the product to prevent injury or damage. Keep this manual for future reference.

- **Electrical Safety:** Ensure the power outlet matches the voltage requirements (100-240V AC, 50/60Hz). Do not overload the circuit. Always unplug the unit when not in use or before cleaning.
- **Water and Moisture:** The heat mats feature an IP67 waterproof rating, protecting against splashes and humidity. However, the thermostat controller is not waterproof. Keep the controller dry and away from water sources. Do not immerse the heat mats or controller in water.
- **Placement:** Place the heat mats on a flat, stable, and dry surface. Do not place the mats on sharp objects or surfaces that could puncture them.
- **Heat Distribution:** Do not fold or crease the heat mats, as this can damage the internal heating elements and create hot spots. Ensure proper air circulation around the mats.
- **Children and Pets:** Keep the product out of reach of children and pets.
- **Damage:** Do not use the product if the power cord, plug, heat mat, or controller is damaged. Contact customer support for assistance.

Upgraded PVC Heating Mats



IP67
waterproof



Easy to clean



Foldable



MET
Certification

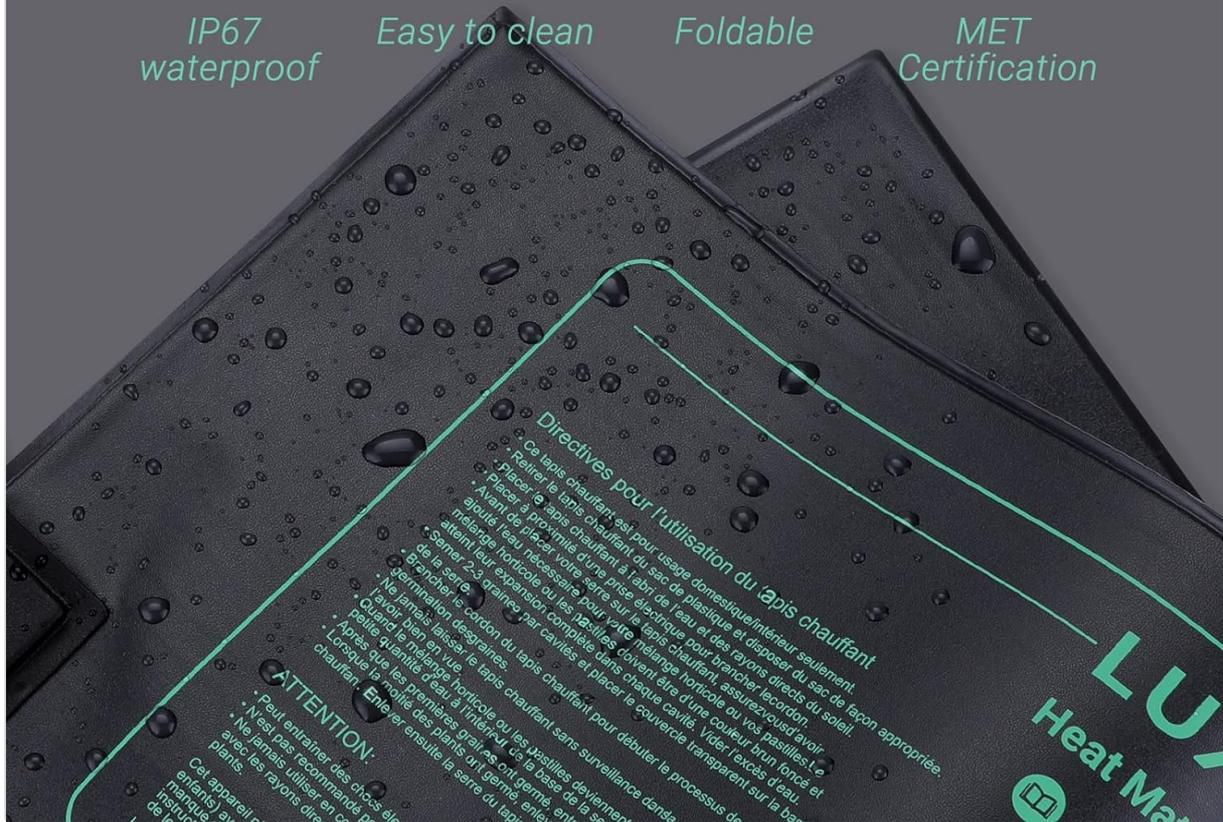


Image 2.1: Heat mat with printed safety guidelines.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 2 x Luxbird Seedling Heat Mats (21W each)
- 1 x Digital Thermostat Controller
- 2 x Temperature Probes
- 1 x User Manual (this document)

4. PRODUCT OVERVIEW

The Luxbird heating system consists of two main components: the heat mats and the digital thermostat controller with probes.

4.1. Heat Mats

The heat mats are designed to provide uniform and stable heat to the root zone of your plants. They measure 52.7 x 25.4 cm (20.75 x 10 inches), fitting standard 1020 trays. The durable PVC surface and

IP67 rating ensure protection against moisture.

Soft, Even, and Stable Heat

 Increase plant survival rate | Promote plant growth | Let plants grow vigorously

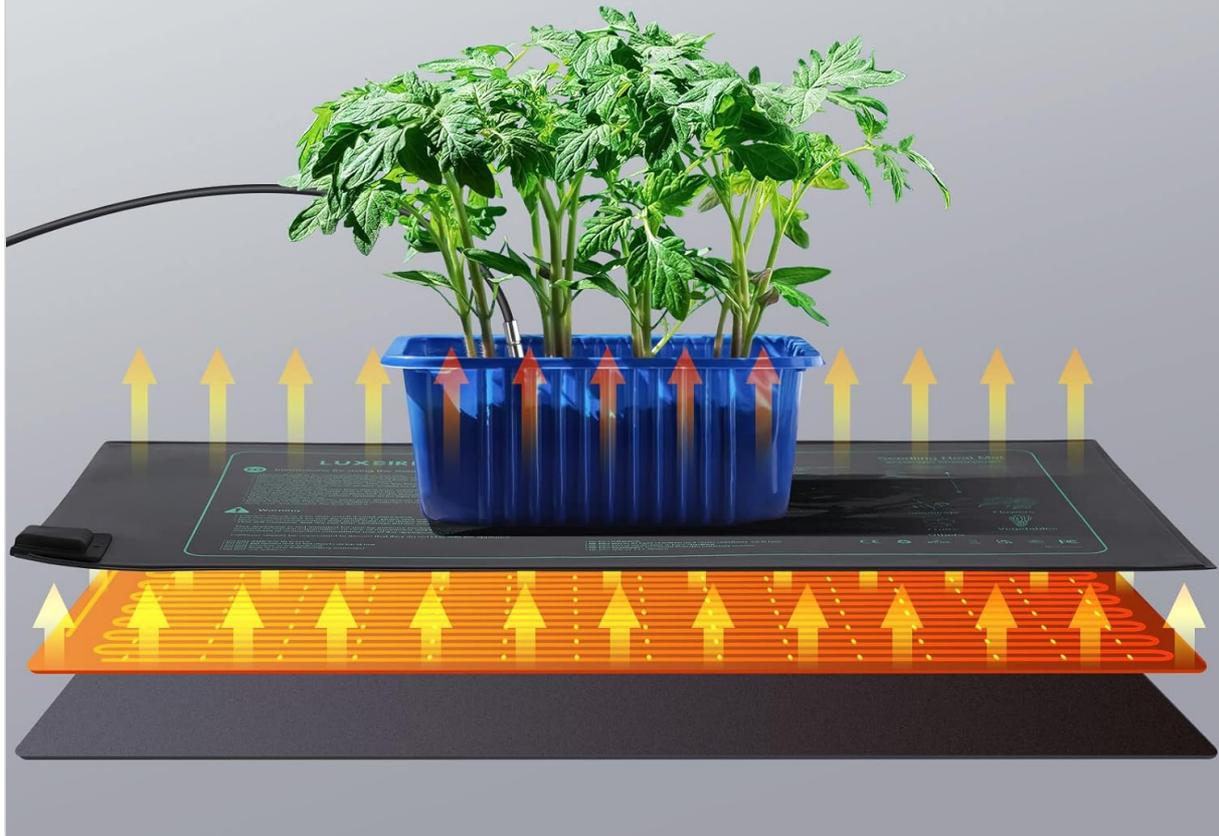
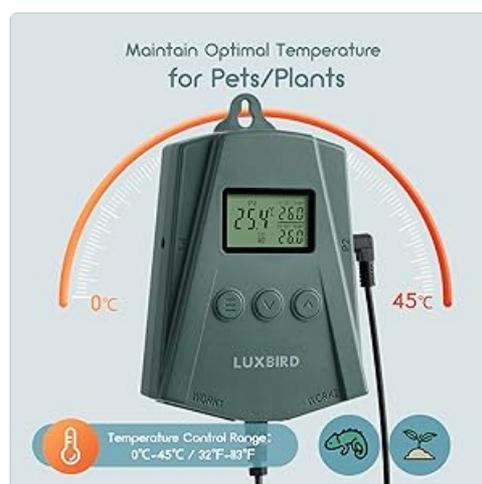


Image 4.1: Illustration of soft, even, and stable heat distribution.

4.2. Digital Thermostat Controller

The digital thermostat controller allows precise temperature setting and monitoring. It features a clear LCD display, control buttons, and two probe sockets (P1, P2) and two thermostat sockets (WORK1, WORK2) for connecting the heat mats.



4.3. Temperature Probes

Two high-precision temperature probes are included to monitor the soil temperature in real-time. These probes are crucial for accurate temperature control and can be calibrated for optimal performance.

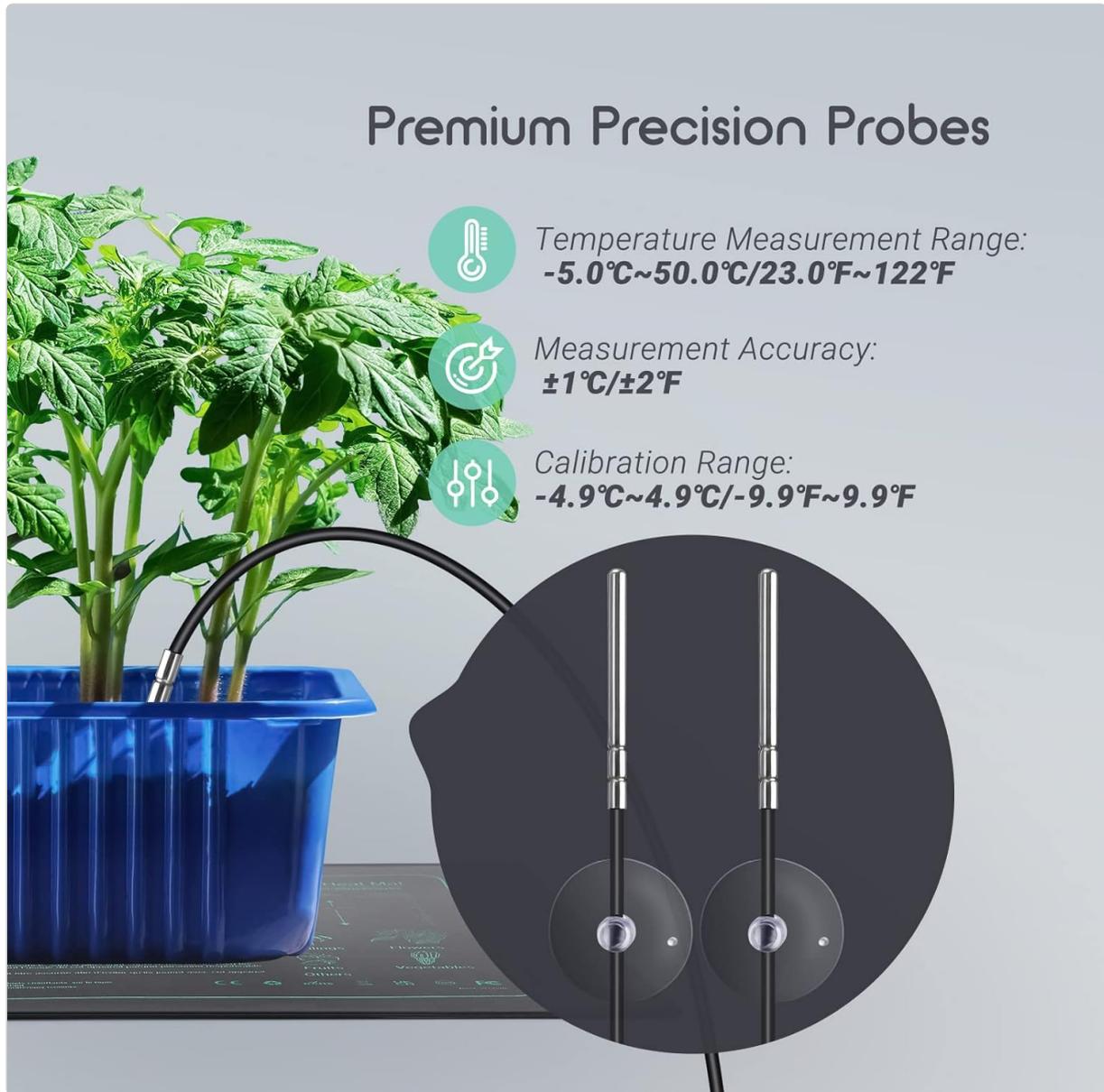


Image 4.3: Premium precision probes for accurate temperature measurement.

5. SETUP INSTRUCTIONS

Follow these steps to set up your Luxbird heating system:

1. **Unpack Components:** Carefully remove all items from the packaging. Inspect for any damage.
2. **Place Heat Mats:** Lay the two heat mats flat on a stable, dry surface where your plants will be located. Ensure they are not folded or creased.
3. **Connect Heat Mats:** Plug the power cords of the two heat mats into the "WORK1" and "WORK2" sockets on the bottom of the digital thermostat controller.
4. **Insert Temperature Probes:** Insert the two temperature probes into the "P1" and "P2" sockets on the side of the controller. Place the probe tips directly into the soil of your plant trays, ensuring they are at the desired depth for temperature monitoring.

5. **Power On:** Plug the thermostat controller's power cord into a suitable electrical outlet. The display will light up.



Image 5.1: Complete setup with two heat mats and controller.

5.1. Thermostat Configuration

The thermostat allows precise control over the heating process. Use the three buttons below the display: **SET** (left, three lines icon), **DOWN** (middle, down arrow), and **UP** (right, up arrow).

1. **Enter Settings Mode:** Press and hold the **SET** button for approximately 3 seconds until the display changes.
2. **Change Temperature Unit (Fahrenheit/Celsius):** The first setting allows you to switch between Fahrenheit (°F) and Celsius (°C). Use the **UP** or **DOWN** buttons to select your preferred unit. Press **SET** to confirm and move to the next setting. *Note: Changing the unit will reset other settings.*
3. **Set Minimum Heating Temperature (ST1 for P1):** This is the temperature below which heating for probe 1 (P1) will activate. Use **UP/DOWN** to adjust. Press **SET**.
4. **Set Target Temperature (SP1 for P1):** This is the desired maximum temperature for probe 1 (P1). Heating will stop when this temperature is reached. Use **UP/DOWN** to adjust. Press **SET**.
5. **Set High Alarm Limit (AH1 for P1):** This is the maximum temperature at which an alarm will sound or display for P1. Use **UP/DOWN** to adjust. Press **SET**.

6. **Set Low Alarm Limit (AL1 for P1):** This is the minimum temperature at which an alarm will sound or display for P1. Use **UP/DOWN** to adjust. Press **SET**.
7. **Calibrate Probe (CR1 for P1):** If the probe reading for P1 is inaccurate, you can calibrate it here. Enter a positive or negative offset (e.g., 0.5 for +0.5°C). Use **UP/DOWN** to adjust. Press **SET**.
8. **Repeat for P2 (ST2, SP2, AH2, AL2, CR2):** Follow steps 3-7 for the second probe (P2).
9. **Alarm Sound Setting:** The final setting allows you to choose whether the alarm should sound audibly or only display visually on the screen. Use **UP/DOWN** to select. Press **SET** to save all settings and exit.

The thermostat will now operate according to your configured settings.

6. OPERATING INSTRUCTIONS

Once configured, the Luxbird thermostat will automatically maintain the desired temperature range for your plants.

6.1. Monitoring Temperature

The thermostat display shows the current temperature measured by each probe (P1, P2) and their respective set temperatures (SP1, SP2). The heating indicator will illuminate when the mats are actively heating.

6.2. Alarm Function

The controller features a high- and low-temperature alarm system. If the temperature measured by a probe exceeds the set high alarm limit (AH) or falls below the low alarm limit (AL), the alarm will activate (audibly or visually, depending on your setting) to alert you to potential issues.

Alarm for Safe

The thermostat controller features a high-and-low temperature alarm and probe abnormality alarm to ensure safe use.



Image 6.1: Alarm feature for safe operation.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Luxbird heating system.

- **Cleaning Heat Mats:** The PVC surface of the heat mats is easy to clean. Disconnect the mats from the controller and power source before cleaning. Wipe them with a damp cloth. Do not use abrasive cleaners or immerse them in water.
- **Cleaning Controller:** Wipe the thermostat controller with a dry cloth. Do not use water or cleaning solutions directly on the controller.
- **Storage:** When not in use, ensure the heat mats are clean and dry. They can be rolled up for compact storage, but avoid sharp creases. Store the controller and probes in a dry, safe place.

8. TROUBLESHOOTING

If you encounter issues with your Luxbird heating system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Heat mat not heating	Not plugged in correctly; thermostat not set correctly; mat damaged.	Check all connections. Verify thermostat settings (ST, SP). Inspect mat for visible damage.
Temperature reading is inaccurate	Probe not placed correctly; probe needs calibration; probe damaged.	Ensure probe tip is fully in the soil. Calibrate the probe using the CR setting (Section 5.1). Replace probe if damaged.
Alarm sounds frequently	Alarm limits (AH/AL) set too close to target temperature (SP); rapid temperature fluctuations.	Adjust AH and AL settings to provide a wider buffer around your target SP. Ensure stable ambient conditions.
Display is blank	No power; controller malfunction.	Check power outlet. Ensure controller is securely plugged in. If problem persists, contact support.

If these solutions do not resolve the issue, please contact Luxbird customer support.

9. SPECIFICATIONS

Technical specifications for the Luxbird 2-Pack Seedling Heat Mats with Digital Thermostat:

Feature	Detail
Model Number	B0C5HB3HSC
Heat Mat Dimensions	52.7 x 25.4 cm (20.75 x 10 inches)
Heat Mat Power	21 Watts per mat
Input/Output Voltage	100~240V AC, 50/60Hz
Max Load (Controller)	500W Max
Temperature Control Range	0°C to 45°C (32°F to 113°F)
Probe Measurement Range	-5.0°C to 50.0°C (23.0°F to 122°F)
Measurement Accuracy	±1°C / ±2°F
Calibration Range	-4.9°C to 4.9°C / -9.9°F to 9.9°F
Probe Length	2m (6.5ft)
Waterproof Rating (Mats)	IP67
Certifications	CE, RoHS, UKCA, MET, FC

